

AMENDMENTS TO THE CLAIMS

1. - 23. (Cancelled)

24. (Previously presented) A method of treating a tumor which comprises administering to a subject in need thereof an effective amount of an extract of *Lentinus edodes* mycelium to enhance $\gamma\delta T$ cell activity, which is prepared by

crushing and delignifying a solid medium containing *Lentinus edodes* mycelia in the presence of water and one or more enzymes selected from cellulase, protease and glucosidase to prepare a suspension, wherein said solid medium is based on bagasse and defatted rice bran; and
raising temperature of said suspension to inactivate the enzymes.

25. (Currently Amended) The method of treating a tumor of claim 24, which comprises administering to a subject in need thereof an effective amount of the extract from *Lentinus edodes* mycelium, wherein said extract comprises carbohydrates, proteins, polyphenols, crude fat, crude ash and soluble nitrogen-free materials other than carbohydrates, to enhance $\gamma\delta T$ cell activity.

26. (Currently Amended) A method of treating a bacterial or viral infection, which comprises

administering to a subject in need thereof, using oral administration or injection, an effective amount of an extract of *Lentinus edodes* mycelium to enhance $\gamma\delta T$ cell activity, which is prepared by

crushing and delignifying a solid medium containing *Lentinus edodes* mycelia in the presence of water and one or more enzymes selected from cellulase, protease and glucosidase to prepare a suspension, wherein said solid medium is based on bagasse and defatted rice bran; and
raising temperature of said suspension to inactivate the enzymes, provided that the viral infection is not Hepatitis B or HIV infection.

27. (Currently Amended) The method of treating a bacterial or viral infection of claim 26, which comprises administering to a subject in need thereof an effective amount of the extract from *Letinus edodes* mycelium, wherein said extract comprises carbohydrates, proteins, polyphenols, crude fat, crude ash and soluble nitrogen-free materials other than carbohydrates, to enhance $\gamma\delta$ T cell activity, provided that the viral infection is not Hepatitis B or HIV infection.

28. (Previously presented) The method of claim 26 or 27, wherein said infection is an infection by *Mycobacterium*, spp.

29. (Previously presented) The method of claim 26 or 27, wherein said infection is an infection by *Listeria monocytogenes*.

30. (Previously presented) The method of claim 26 or 27, wherein said infection is an infection by Hepatitis A.

31. (Cancelled)

32. (Previously presented) The method of claim 26 or 27, wherein said infection is an infection by Hepatitis C.

33. (Cancelled)

34. (Previously presented) The method of claim 26 or 27, wherein said infection is an infection by vaccinia virus.

35. (Previously presented) The method for treating a tumor of claim 24, which comprises administering to a subject in need thereof an effective amount of the extract comprising approximately 25.3% carbohydrates, 19.7% proteins, 2.6% polyphenols, 8% crude fat, 22% crude ash and 20% soluble nitrogen-free materials other than carbohydrates.

36. (Previously presented) The method of claim 24, wherein said extract is suitable for oral administration.

37. (Previously presented) The method of claim 24, wherein said extract is suitable for injection or percutaneous absorption.

38. (Currently Amended) A method for activating $\gamma\delta T$ *in vivo* by administering to an animal an extract of *Lentinus edodes* mycelium mycelium, which is prepared by

crushing and delignifying a solid medium containing *Lentinus edodes* mycelia mycelia in the presence of water and one or more enzymes selected from cellulase, protease and glucosidase to prepare a suspension, wherein said solid medium is based on bagasse and defatted rice bran; and

raising temperature of said suspension to inactivate the enzymes.